

What Have Been the Human Health Impacts Resulting From the Use of Indicators?

Track 2—Wednesday Morning

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Science Workshop on Environmental Indicators
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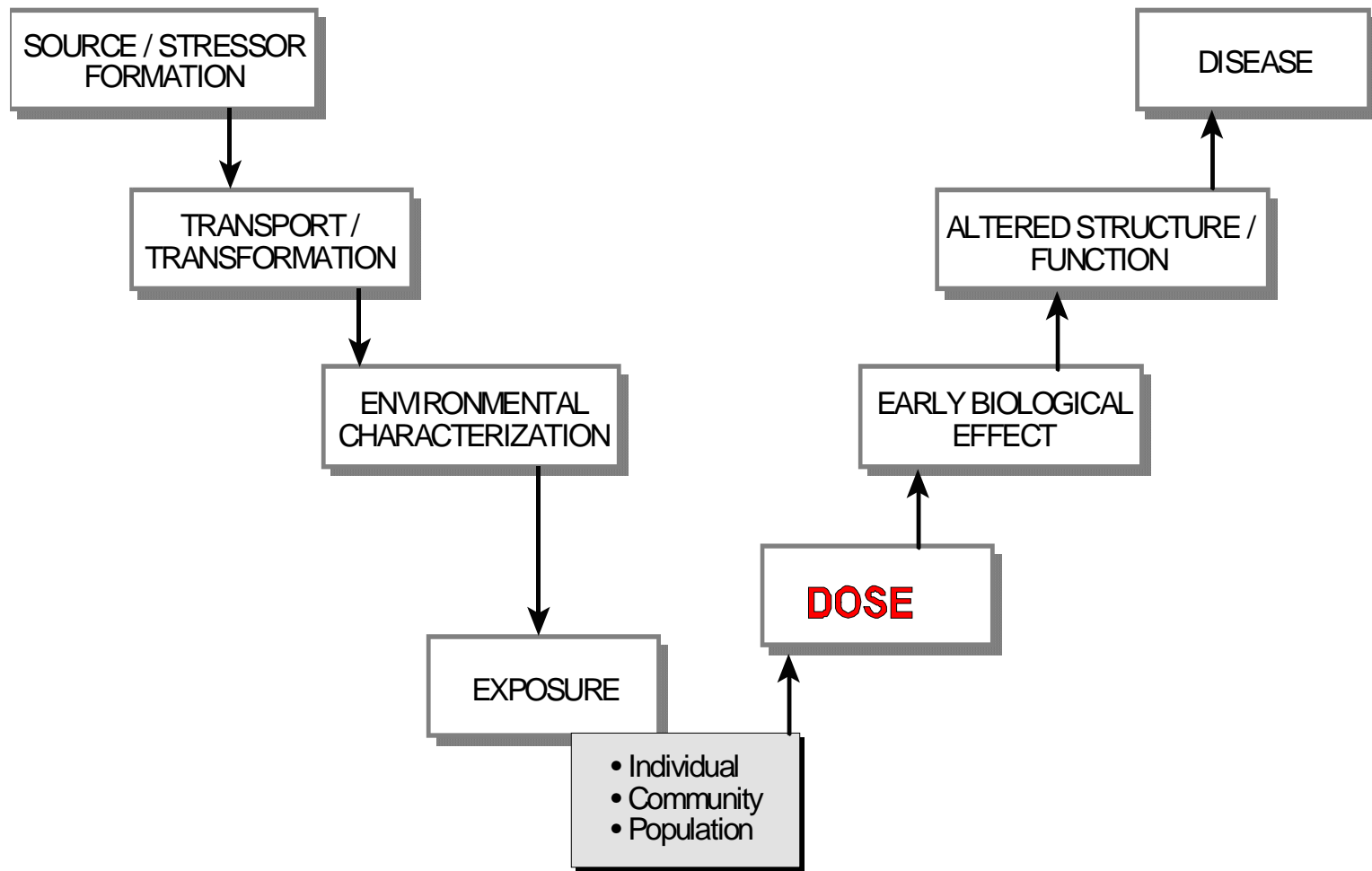
Health Session Overview

Session Goal: Demonstration of different applications of indicators in environmental health

- Describe Environmental Health Continuum for context
- Some indicators of human health/exposure from EPA *Draft Report on the Environment* (Human Health Chapter)
- Today's speakers



Environmental Public Health Continuum



EPA Draft Report on the Environment

Health Status of U.S.--Trends and Indicators

Question	Indicator Name
What are the trends for life expectancy?	Life Expectancy
What are the trends for: Cancer Cardiovascular disease Chronic Obstructive Pulmonary Disease Asthma	Cancer Mortality/Incidence Cardiovascular mortality/prevalence COPD mortality Asthma mortality/prevalence
What are the trends for gastrointestinal illness?	Cholera, Cryptosporidiosis, <u>E. coli</u> O157-H7, Hepatitis A, Salmonellosis, Shigellosis, Typhoid fever Prevalence
What are the trends for children's environmental health issues?	Infant mortality, Low birthweight Childhood cancer mortality/incidence Childhood asthma mortality/prevalence Deaths due to birth defects, Birth defects incidence



RESEARCH & DEVELOPMENT

Building a scientific foundation for sound environmental decisions

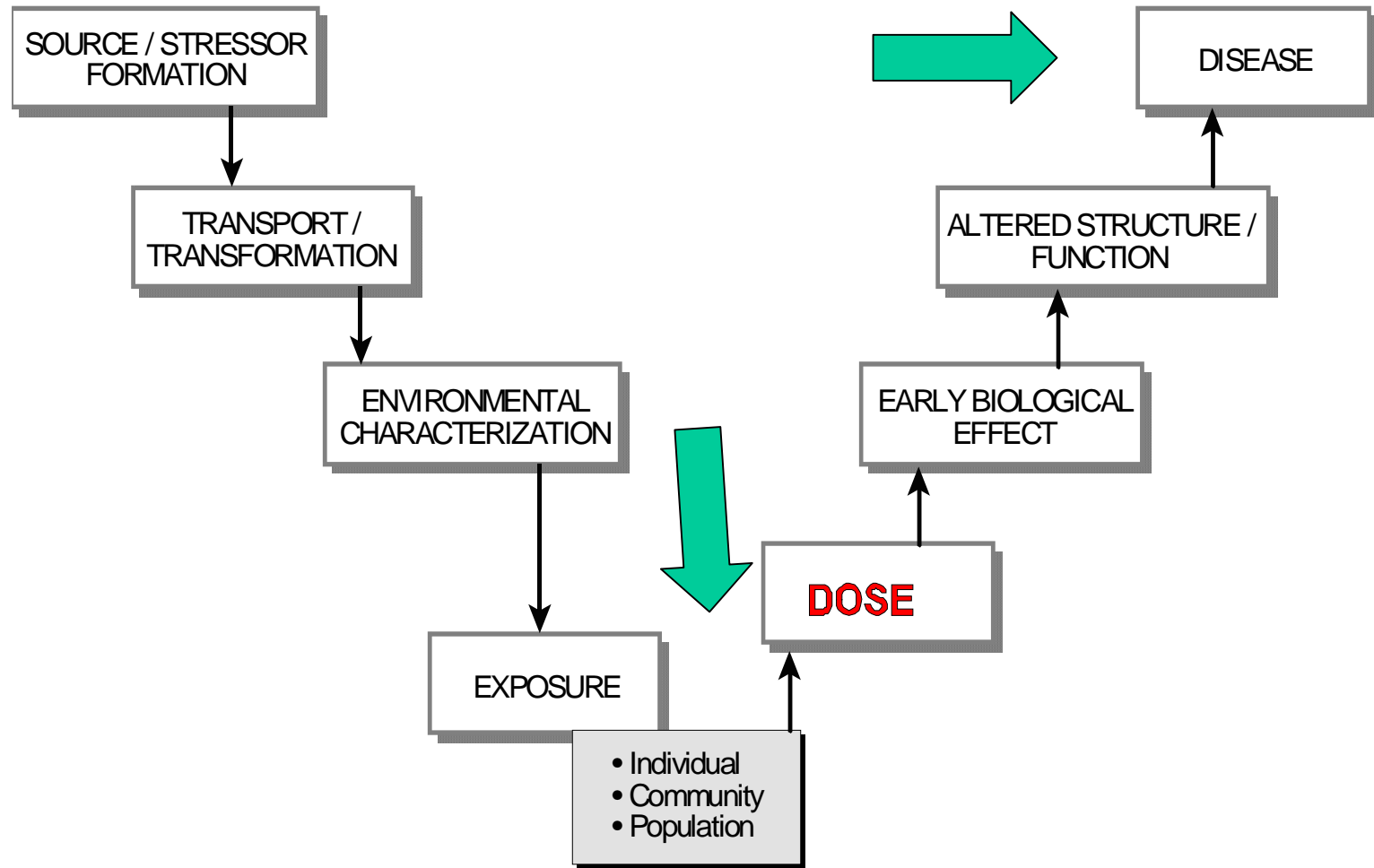
EPA Draft Report on the Environment

Measuring Exposure to Environmental Pollution: Trends and Indicators

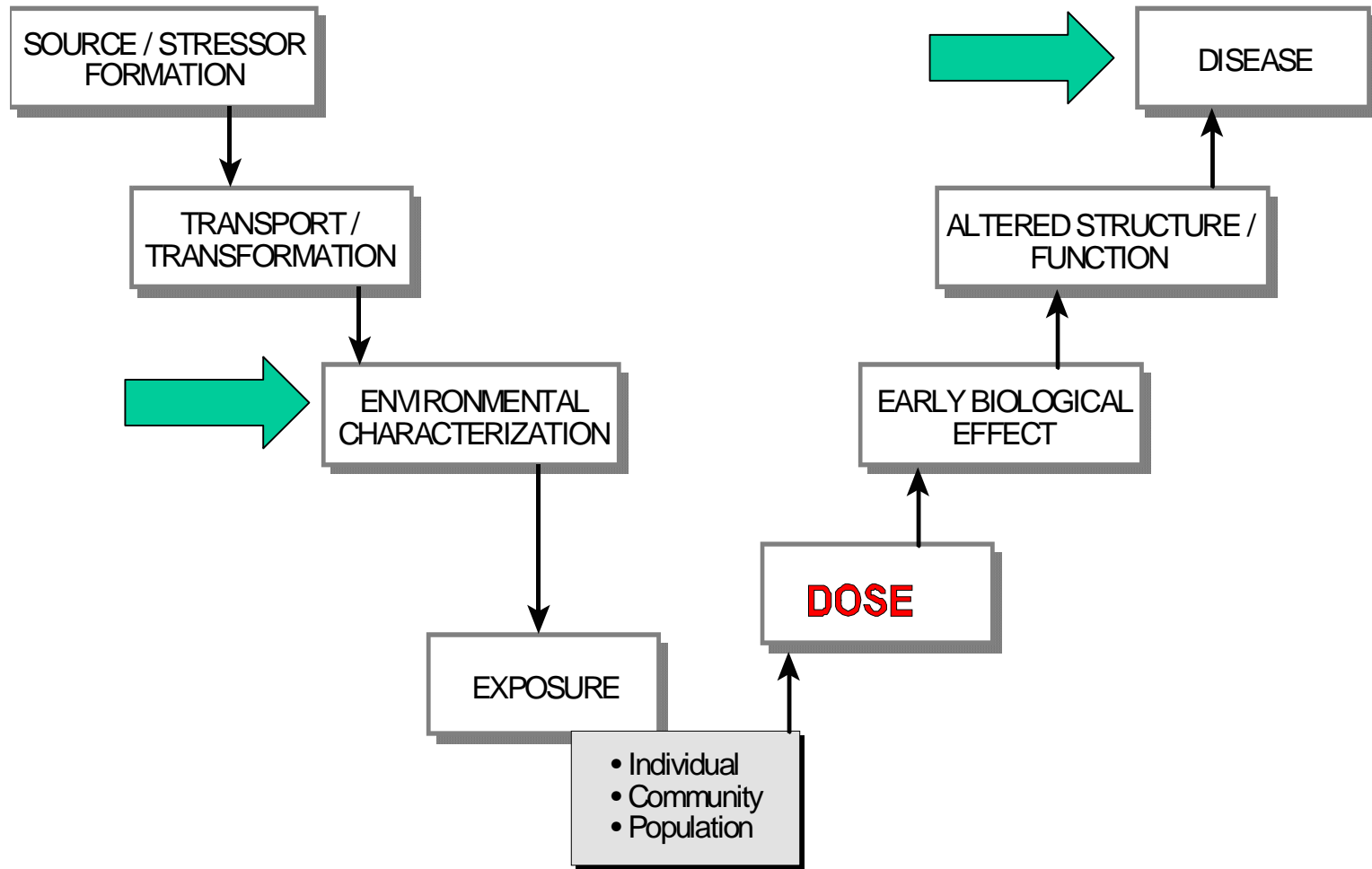
Question	Indicator Name
What is the level of exposure to heavy metals?	Blood lead level, urine arsenic level, blood mercury level, blood cadmium level
What is the level of exposure to cotinine?	Blood cotinine level
What is the level of exposure to VOCs?	Blood volatile organic compound level
What is the level of exposure to pesticides?	Urine organophosphate level
What is the level of exposure to persistent organic pollutants?	No Category 1 or 2 indicators at that time
What are the trends in exposure to environmental pollutants for children?	Blood lead level, Blood mercury level, Blood cotinine level
What is the level of exposure to radiation, air pollutants, biological pollutants, disinfection by-products?	No Category 1 or 2 indicators at that time



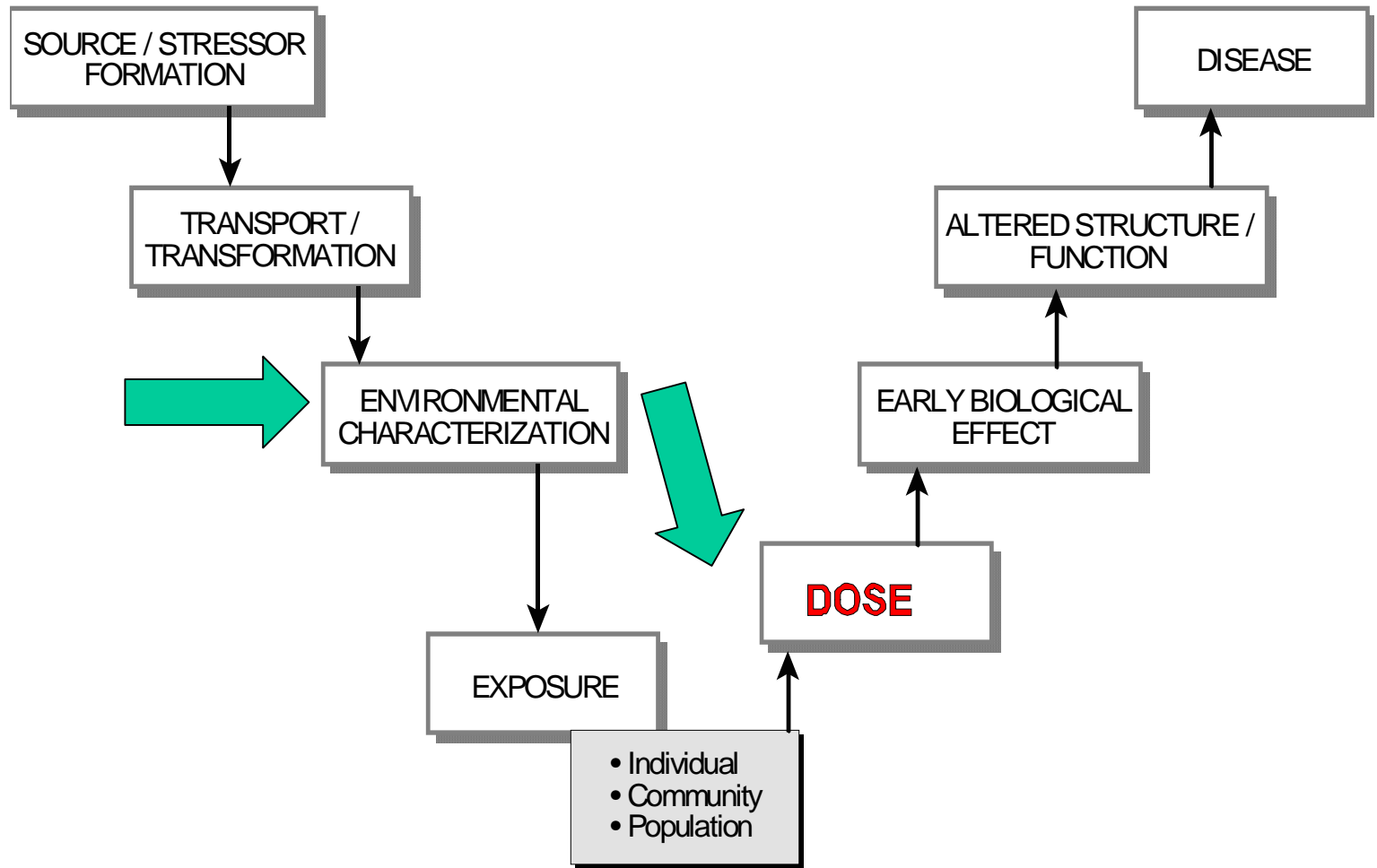
EPA Draft Report on the Environment— Human Health Chapter Indicators



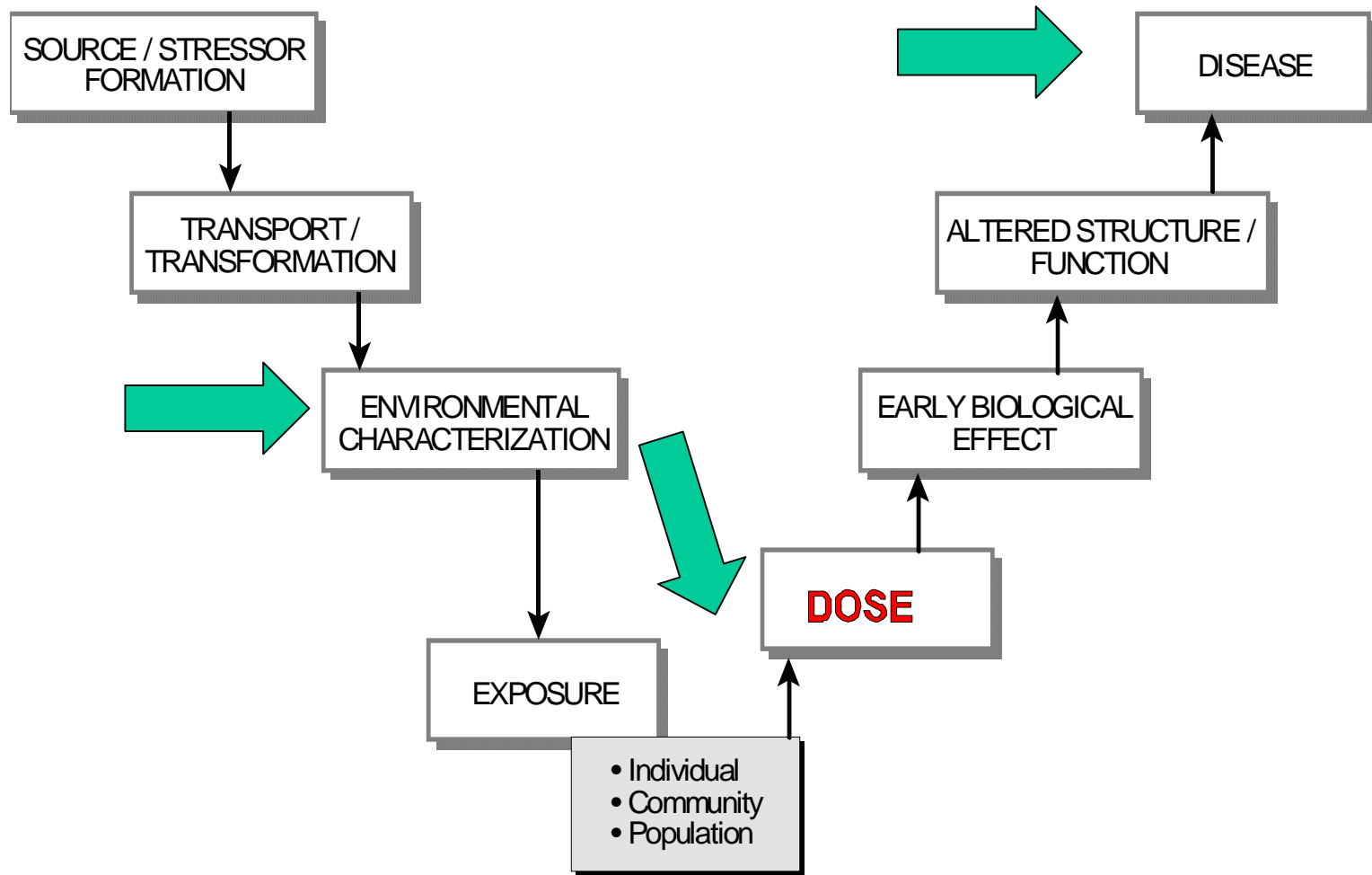
Jerry Fagliano – Radium in Drinking Water and Osteosarcoma in New Jersey



Jeff Patridge -- Tailings as Agriculture Lime in St. Francois County, Missouri



Amanda Niskar--National Environmental Health Tracking Program Indicators



Now on to our session speakers!

